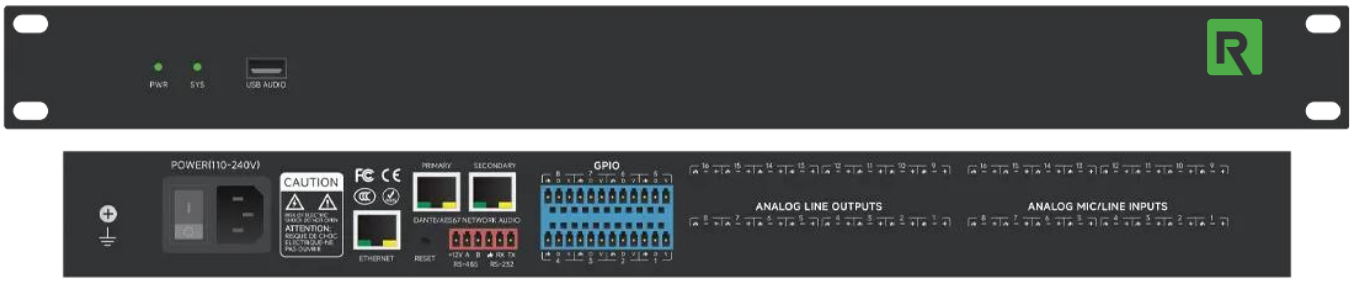
RESOUNDIFY

AurisPro-6464D

Advanced Audio DSP with Dante & AEC/ANC Support Dante 64*64



PRODUCT OVERVIEW

The **Resoundify** AurisPro-6464D is a high-performance, enterprise-class 64x64 Audio Digital Signal Processor (DSP) engineered for large-scale, professional AV installations. Designed for audio environments that demand extensive input/output capacity and uncompromising processing power, this DSP is built on the Analog Devices SHARC DSP platform and supports full Dante™ audio networking (64x64 channels).

With built-in AEC (Acoustic Echo Cancellation) and ANC (Automatic Noise Cancellation) on all mic channels, the AurisPro-6464D guarantees crystal-clear voice pickup and reliable audio clarity in high-density conferencing or broadcast setups. It features intelligent audio tools such as auto-mixing, adaptive feedback suppression, AGC, ducking, and ambient noise compensation, all configurable through an intuitive interface.

KEY FEATURES

- **Professional SHARC DSP Core:** Delivers powerful processing using Analog Devices' renowned SHARC platform, ensuring low-latency performance and customization potential.
- **High-Quality Audio Processing:** 24-bit/48kHz audio resolution ensures crystal-clear sound quality across all channels.
- **Intelligent Feedback Suppression:** Adaptive per-channel feedback elimination for consistent, interference-free audio.
- **Full-Duplex AEC & ANC:** Integrated Adaptive Echo Cancellation and Active Noise Cancellation per channel for flawless communication.
- **Auto Mixer & Gain Control:** Features Gain Sharing Auto Mixer, AGC, and Ducker for smooth level balancing in real-time.
- **Ambient Noise Compensation:** Dynamically adjusts levels based on background noise fluctuations.
- **Expandable Control Options:** 8 configurable GPIOs (input/output/ADC), RS-232 & UDP support with assignable ports for central control systems.
- **Multi-Platform Compatibility:** Supports both iOS and Windows OS with dual USB audio interface for recording and conferencing.

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

TECHNICAL SPECIFICATIONS

System Specifications

Processor	ADI SHARC 21489@450 MHz SIMDx2
Raw Processing Capacity	400 MIPS, 1.6 GFLOPS
Sampling Rate	48 kHz ± 100 ppm
Frequency Response (A/D/A)	20 Hz - 20 kHz ± 0.3 dB
Dynamic Range (A/D/A)	114 dB (A-weighted)
THD + Noise	< -95 dB (22.4 kHz BW, unweighted); 1 kHz @ +17 dBu, 0 dB gain
Channel Separation (A/D/A)	110 dB @ 1 kHz, +24 dBu
Latency (A/D/A)	<6 ms (input routed directly to output)
Delay Memory	174 mono seconds
Analog Control Inputs	0-3.3 VDC
Recommended External Control Potentiometer	10k Ohm, linear taper
Logic Outputs	Low (0 V) when active Pulled high (5 V) when inactive
Logic Output Maximum External Power Supply / Current Sinking	24 VDC / 50 mA
Logic Output Maximum Output Current	10 mA
RS-232 Accessory Serial I/O	57.6 kbps (default), 8 data bits, 1 stop bit, no parity, Straight-through wiring; pins 2, 3, 5 used
AEC Channel	1-bus AEC
Maximum Stored Presets	16 storable presets
Dimension	482x260x45mm

Rear View